

Technical Data

Models 123.053 (280 CE), 123.150 (300 CD)

Engine

| | | |
|--------------------------------|---|--|
| Chassis type | 123.053 | 123.150 |
| Engine | 110.984 | 617.912 |
| Operation | four-stroke gasoline engine mechanical (CIS) fuel injection with airflow sensor | four-stroke diesel engine with MB prechamber |
| Number of cylinders | 6 | 5 |
| Arrangement of cylinders | upright in line | |
| Bore/stroke | mm (inches) 86/78.8 (3.39/3.10) | 91/92.4 (3.58/3.64) |
| Total eff. piston displacement | cm ³ (cu. inches) 2746 (167.6) | 3005 (183.4) |
| Compression ratio | 8 : 1 | 21 : 1 |
| Firing Order | 1-5-3-6-2-4 | 1-2-4-5-3 |
| Maximum engine rpm | 6500 | 5100 (no load) |
| Engine output | SAE net. bhp/rpm 142/5750 ¹) 137/5750 ²) | 77/4000 |
| Maximum torque | SAE net. lb-ft/rpm 149/4600 ¹) 142/4600 ²) | 115/2400 |
| Crankshaft bearings | 7 | 6 |
| Valve arrangement | overhead | |
| Camshaft arrangement | DOHC | OHC |
| Oil cooling | None | air-oil cooler |
| Engine cooling | Water circulation pump, thermostat with by/pass line, finned tube radiator, viscous fan | |
| Lubrication | Forced oil circulation by gear pump | |
| Oil filter | Full-flow filter | Combination full-flow and by-pass filter |
| Air filter | Air filter with paper cartridge | |

¹⁾ Federal version

²⁾ California version

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Dimensions

| | | | | |
|-----------------------------|---------|-----------------|----------|--------------|
| Length overall | | | mm (in.) | 4763 (187.5) |
| Width | | | mm (in.) | 1786 (70.3) |
| Height, ready-to-drive | | | mm (in.) | 1395 (54.9) |
| Wheel base | | | mm (in.) | 2710 (106.7) |
| Track | front | | mm (in.) | 1488 (58.6) |
| | rear | | mm (in.) | 1446 (56.9) |
| Wheel lock | inside | approx. degrees | | 43° |
| | outside | approx. degrees | | 33° |
| Turning circle — min. diam. | | | m (ft.) | 11.0 (36.1) |

Weights

| | | | |
|--|-----------|-----------------------|-----------------------|
| Vehicle curb weight | kg (lbs.) | 1590 (3505) | 1585 (3495) |
| Gross vehicle weight (GVWR) | kg (lbs.) | 2060 (4540) | 2060 (4540) |
| Gross axle weight rating (GAWR) front/rear | kg (lbs.) | 1000/1060 (2205/2340) | 1010/1050 (2230/2315) |

Electrical System

| | | | |
|------------|---------------------|--------------------------------------|---------------|
| Battery | Voltage Capacity | 12 V 55 Ah | 12 V 88 Ah |
| Starter | Bosch | GF 12 V 1.5 KW | F 12 V 2.0 KW |
| Alternator | Bosch | K1 14 V 55 A 20 maximum output 770 W | |

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Filling Capacities

| | | | | | |
|--|--|------------|--|---------------------------------|-------------------------------|
| Fuel tank/reserve fuel | | | approx. ltr. approx. US gal. approx. Imp. gal. | 80/11.5 21.1/3.0 17.6/2.5 | |
| Engine | Initial filling | Engine oil | approx. ltr. approx. US qts. approx. Imp. qts. | 7.0 7.4 6.2 | 7.5 7.9 6.6 |
| | Oil and filter change | Engine oil | approx. ltr. approx. US qts. approx. Imp. qts. | 6.5 6.9 5.7 | |
| | Oil pan up to markings on oil dipstick | Engine oil | max./min. ltr. max./min. US qts. max./min. Imp. qts. | 6/4.5 6.3/4.8 5.3/4.0 | 5/3.5 5.3/3.7 4.4/3.1 |
| | Oil filter | Engine oil | approx. ltr. approx. US qts. approx. Imp. qts. | 0.6 0.6 0.5 | 1.5 1.6 1.3 |
| | Cooling system with heater | Coolant | approx. ltr. approx. US qts. approx. Imp. qts. | 10 10.6 8.8 | 11 11.6 9.7 |
| Water pump | | | | maintenance free | |
| Brake system | Brake fluid | | approx. ltr. approx. US pts. approx. Imp. pts. | 0.5 1.1 0.9 | |
| Automatic transmission Initial filling/ fluid change | Automatic transmission fluid (ATF) | | approx. ltr. approx. US qts. approx. Imp. qts. | 6.6/5.3 7.0/5.6 5.8/4.7 | 6.1/4.8 6.4/5.1 5.4/4.2 |
| Rear axle | Hypoid oil SAE 90 | | approx. ltr. approx. US pts. approx. Imp. pts. | 1 2.1 1.8 | |
| Power steering | Automatic transmission fluid (ATF) | | approx. ltr. approx. US pts. approx. Imp. pts. | 1.4 3 2.5 | |

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Performance Data

| | | | | |
|--|---------------------|--------------------|---------------------------------------|-------------|
| Rear axle ratio | | | 3.54 | 3.46 |
| Maximum speed in individual gears | 1st gear | km/h (mph) | 42 (26) | 36 (23) |
| | 2nd gear | km/h (mph) | 88 (55) | 64 (40) |
| | 3rd gear | km/h (mph) | 145 (90) | 104 (65) |
| | 4th gear | approx. km/h (mph) | 180 (112) | 143 (89) |
| Gradability | 1st gear slip limit | % (1 in) | 41 (2.44) | 41 (2.44) |
| | 2nd gear | % (1 in) | 41 (2.44) | 37 (2.70) |
| | 3rd gear | % (1 in) | 23 (4.35) | 15 (6.67) |
| | 4th gear | % (1 in) | 9 (11.11) | 7.5 (13.33) |
| Acceleration through gears 0 to 100 km/h (0 to 62 mph) Load: 2 persons | | | 12.9 ²⁾ 13.5 ³⁾ | 20.8 |
| Engine rpm at 100 km/h (62 mph) in high gear | | | 3155 | 3090 |

Fuel/oil consumption and operating conditions

| | | | |
|---|---|---|--|
| Fuel consumption during average cross-country driving | ltr./100 km miles per US gal. Imp. gal. | 12–19.5 20–12 24–14 | 9–14 26–17 31–20 |
| Fuel consumption at 110 km/h (68 mph) | ltr./100 km miles per US gal. Imp. gal. | 14.8 ²⁾ 15.4 ³⁾ 16 ²⁾ 15 ³⁾ 19 ²⁾ 18 ³⁾ | 11.5 20 25 |
| Engine oil consumption (max.) | ltr./100 km miles per US qts. Imp. qts. | 0.25 235 282 | |
| Coolant temperature | in working range of thermostat approx. °C (°F) max. temp. | 85–100 185–212 126 (259) | 80– 95 176–203 |
| Fuel types | | Gasoline, lead-free | Diesel fuel according to ASTM D 975 No. 1–D, 2–D |
| Anti-knock property | minimum-ROZ | 91 | --- |
| | minimum-MOZ | 81 | --- |

¹⁾ The $\pm 7\%$ factor includes possible deviations from permissible engine performance and tire tolerance limits.
²⁾ Federal version.
³⁾ California version.